

1. (Twice Amended) A gaming machine comprising:

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game processing means for executing game processing,
wherein said game processing means including dividend
determining means for determining a dividend to be paid to a
bettor who has won a lottery with a predetermined probability,
said lottery including a plurality of objects with predetermined
probabilities of winning, and for indicating the dividend to the
bettor;

display means for providing an execution result executed by
said dividend determining means to the bettor;

said dividend determining means comprising:

setting means for setting a target payout rate and a
probability of winning of each of the objects and for setting
odds on each of the objects based on the target payout rate and
the probability of winning;

ordering means for arranging the objects in order of the
probability of winning;

first correction means for approximately correcting the
odds on the object in a highest place to odds with a
predetermined number of digits, correcting the probability of
winning of the object in the highest place based on the
corrected odds, reflecting the difference between an uncorrected
probability of winning and the corrected probability of winning
of the object in the probability of winning of the object in a

subsequent place, predetermined the odds on the object in the subsequent place based on the corrected probability of winning of the object in the subsequent place, and repetitively performing a whole processing for the objects in all places; and

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second correction means for approximately correcting the predetermined odds on the object in last place to odds with a predetermined number of digits, predetermining the probability of winning based on the approximated odds, and again reflecting the difference between the probability of winning and the predetermined probability of winning at predetermined ratios in the probabilities of winning of all the objects, and

wherein said display means displaying the final odds obtained by said first and second correction means.

5. (Twice Amended) A gaming machine comprising:

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game processing means for executing game processing, wherein said game processing means including dividend determining means for determining a dividend to be paid to a bettor who has won a lottery with a predetermined probability, said lottery including a plurality of objects with predetermined probabilities of winning, and for indicating the dividend to the bettor;

display means for providing an execution result executed by said dividend determining means to the bettor,

said dividend determining means comprising:

setting means for setting a target payout rate and a probability of winning of each of the objects and for setting provisional odds on each of the objects based on the target payout rate and the probability of winning;

ordering means for arranging the objects in order;

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first correction means for approximately correcting the odds on the object in first place to odds with a predetermined number of digits, correcting the probability of winning of the object in the first place based on the corrected odds, reflecting the difference between an uncorrected probability of winning and the corrected probability of winning of the object in the probability of winning of the object in a subsequent place, predetermining the odds on the object in the subsequent place based on the corrected probability of winning of the object in the subsequent place, and repetitively performing a whole processing for the objects in all places; and

second correction means for approximately correcting the predetermined odds on the object in last place to odds with a predetermined number of digits, predetermining the probability of winning based on the approximated odds, and again reflecting the difference between the probability of winning and the predetermined probability of winning at predetermined ratios in the probabilities of winning of all the objects, and

28 wherein said display means displaying the final odds obtained by said first and second correction means.

6. (Twice Amended) An operation method for a gaming machine,

said game machine comprising:

game processing means for executing game processing, wherein said game processing means including dividend determining means for determining a dividend to be paid to a bettor who has won a bet on a race with a predetermined probability; the race including a plurality of objects with predetermined probabilities of winning, and for indicating the dividend to the bettor, and display means for providing an execution result executed by said dividend determining means;

said operation method comprising the steps of:

setting a target payout rate and a probability of winning of each of the objects and setting odds on each of the objects based on the target payout rate and the probability of winning;

rearranging data on the objects in descending order of the probability of winning; and

performing correction processing with said gaming machine, said correction processing including the steps of:

approximately correcting the odds on the object with a highest probability of winning to numeric data with a predetermined number of digits;

correcting the probability of winning based on the corrected odds;

obtaining the difference between the uncorrected probability of winning and the corrected probability of winning;

reflecting the difference in the probability of winning and in the odds on the object in the subsequent place;

repetitively performing the whole processing until the object with the lowest probability of winning is processed;

allocating the difference in the probabilities of winning of the last object among the corrected probabilities of winning of the objects at predetermined ratios; and

displaying the final odds obtained by the correction processing on said display means.

7. (Twice Amended) An operation method for a gaming machine,

said game machine comprising:

game processing means for executing game processing, wherein said game processing means including dividend determining means for determining a dividend to be paid to a bettor who has won a bet on a lottery with a predetermined

probability in straight betting and quinella betting, said lottery including a plurality of objects with predetermined probabilities of winning, and for indicating the dividend to the bettor, and display means for providing an execution result executed by said dividend determining means,

said operation method comprising the steps of:

setting a target payout rate and a probability of winning of each of straight bets and quinella bets and setting odds on each of the straight bets and the quinella bets based on the target payout rate and the probability of winning;

rearranging data on the quinella bets in descending order of the probability of winning;

approximately correcting the odds on the quinella bet with a highest probability of winning to numeric data with a predetermined number of digits, correcting the probability of winning based on the corrected odds, obtaining the difference between an uncorrected probability of winning and the corrected probability of winning, reflecting the difference in the probability of winning and in the odds on the quinella bet in a subsequent place, repetitively performing a whole processing until the quinella bet with the lowest probability of winning is corrected, and allocating the difference in the probabilities of winning of the last quinella bet in accordance with the corrected probabilities of winning of the quinella bets;

reflecting the corrected probabilities of winning of the quinella bets in the probabilities of winning of the straight bets and predetermining the odds on the straight bets;

rearranging data on the straight bets in descending order of the probability of winning; and

performing correction processing with said gaming machine, said correction processing including the steps of:

approximately correcting the odds on the straight bet with the highest probability of winning to numeric data with a predetermined number of digits;

correcting the probability of winning based on the corrected odds;

obtaining the difference between the uncorrected probability of winning and the corrected probability of winning;

reflecting the difference in the probability of winning and in the odds on the straight bet in the subsequent place;

repetitively performing the whole processing until the straight bet with the lowest probability of winning is corrected;

allocating the difference in the probabilities of winning of the last straight bet in accordance with the corrected probabilities of winning of the straight bets, and

displaying the final odds obtained by the correction processing on said display means.

9. (Twice Amended) An operation method for a gaming machine,

said game machine comprising:

game processing means for executing game processing, wherein said game processing means including dividend determining means for determining a dividend to be paid to a bettor who has won a bet on a race with a predetermined probability, the race including a plurality of objects with predetermined probabilities of winning, and for indicating the dividend to the bettor, and display means for providing an execution result executed by said dividend determining means,

said operation method comprising the steps of:

setting a target payout rate and the probability of winning of each of the objects and setting odds on each of the objects based on the target payout rate and the probability of winning;

rearranging data on the objects in order; and

performing correction processing with said gaming machine, said correction processing including the steps of:

approximately correcting the odds on the object in first place to numeric data with a predetermined number of digits;

correcting the probability of winning based on the corrected odds;

obtaining the difference between the uncorrected probability of winning and the corrected probability of winning;

reflecting the difference in the probability of winning and in the odds on the object in the subsequent place;

repetitively performing the whole processing until the object in the last place is processed; and

3 allocating the difference in the probabilities of winning of the last object in accordance with the corrected probabilities of winning of the objects, and

displaying the final odds obtained by the correction processing on said display means.
